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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TITLE: VIEW ANGLE CONTROL SHEET AND DISPLAY DEVICE

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AMENDED ABSTRACT

~~The invention provides a~~ A view angle control sheet having a wide view angle, in which diffuse light from a screen image source is effectively utilized to suppress a decrease in screen brightness while a decrease in image contrast caused by an outside light beam is suppressed to prevent generation of a ghost ~~and thereby to improve contrast is improved. In a view angle control sheet, The~~ lens portions having have trapezoidal shapes in section ~~[[are]]~~ arranged at predetermined intervals~~[[, a]]~~. A wedge-shaped portion between the lens portions ~~adjacent to each other is filled with the same material as the lens portion or with a material different from the lens portion, the wedge-shaped portion has a bottom surface on a screen image source side while having a leading end on an observer side, and the following relationships hold: $N_x \leq N_y$ and $-0.01 < D_n - \cos \theta < 0.002$, where N_x is a refractive index of a material constituting at least a slope portion of the wedge-shaped portion, N_y is a refractive index of a material constituting the lens portion, and D_n is a ratio (N_x/N_y) of the refractive index N_x to the refractive index N_y , and a sectional shape of the wedge-shape portion has a wide bottom surface on the screen image source side.~~